V. Bartner

1645

p#-18

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RAW SEQUENCE LISTING              DATE: 11/28/2000
PATENT APPLICATION:  US/09/252,691C     TIME: 12:05:30

Input Set : D:\Pat9903.pto
Output Set: N:\CRF3\11282000\I252691C.raw
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 6  <120> TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROBACTER
 7         CLOACAE FOR DIAGNOSTICS AND THERAPEUTICS
 9  <130> FILE REFERENCE: 107196.135
11  <140> CURRENT APPLICATION NUMBER: US 09/252,691C
12  <141> CURRENT FILING DATE: 1999-02-18
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18  <151> PRIOR FILING DATE: 1998-02-18
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32  tgctcccctg ctccttccgg ttgcgctttt tcctgtcggt tttgcttttc cgctcctgcc    180
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34  gttcttctct ttggttccgt gtgcctcgcc tggttcctgg tcttcgcttt ccttgtggcg    300
35  ctgtggatgg atcagggggt ggtgtcgtgg cttcgtcacg tcttgctggc gccgggaagc    360
36  cataaaaacc cggtgacgct ggtgatcacg gggcttatcc tccgtgccat tgtctggtca    420
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55  agcagccaga acaccagcag agacacaaag accaccgagg cgacgccgat ccagaaagac    180
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66  caccggggcg gaggagaagg cgaaaggcca gaacctcgcg ccgaaagcgg agaagagcga    180
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7E13

RAW SEQUENCE LISTING   DATE: 11/28/2000
PATENT APPLICATION: US/09/252,691C   TIME: 12:05:30

Input Set : D:\Pat9903.pto
Output Set: N:\CRF3\11282000\I252691C.raw

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69 cagtcaggtg aacgcgcagc aggcgaacgg gatcggcctc ggcaaaccgg aagatttcac      360
70 acagattcat caggccgcca ggatcggcaa gccgcacata acctcgccca cctttaacgt      420
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82 gtgagcaccc tgaaagagct ggcccgccgg tggaaaccgg aaattttcga cggcttcaca      180
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94 atcgccacac tggtcaccga tgccaacctc aatattctgg cggaaggccc aacgattgcc      180
95 gtgcaccagt ccgatgacca gcttcgcgctg atggatgagt ggaacgtgcg tacccatacc      240
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97 gcgacgcttg aatttctgaa gcagtgggtg ccggcaggaa aatcgcctat ctgtgggcaa      360
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108 cgtaccctgc tcattgtcta ccctcccatt ctgagcgatg ggctgtttaa tttcgtggtg      180
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111 tttgccgcct atcttctcaa tcagcgctat ggcagcgggg acgcgtggat gtatgaaaca      360
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115 gcctcgaatg cgctgggctt cttcaccggc ctggtctttg tggttggcat tgccatcgtg      600
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117 gttaaagcgg gataa                                                       675
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120 <211> LENGTH: 647
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                    RAW SEQUENCE LISTING                  DATE: 11/28/2000
                    PATENT APPLICATION:  US/09/252,691C   TIME: 12:05:30

                    Input Set : D:\Pat9903.pto
                    Output Set: N:\CRF3\11282000\I252691C.raw

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      139 aaatcgacgt tattcatggc gatatcacga cggtgcgcgt tgacgtgatc gtcaacgcag   180
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      141 ctcaactcct tgaagcatgc aaaaccgtgc gtcagcagca gggagagtgc ccgccggggc   300
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      168 gtactcatta tcaatgcgac gaccaccttg tcgcttcctt ttgaaaccca gctgcttgat   840
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RAW SEQUENCE LISTING   DATE: 11/28/2000
PATENT APPLICATION: US/09/252,691C   TIME: 12:05:30

Input Set : D:\Pat9903.pto
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184 ctcaaccgtg cattcacacc aaagggtgat tttggaagag taatttcttc agcaaataac     180
185 gcatcaaaac aaattaaccg tgcattttca aagagcatga attttgatga agctggtaaa     240
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187 tatcaggacg cttacggggc taaaggaaaa ggccgctcaa atccaccagc agccggaaag     360
188 ccacaaggca gaggctcaga tttaacagcc gctaattcaa tccgttcact cgctaatact     420
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193 ctgtaagcg tttcagcggc gttatacgcg acatttgaag ccgtccgtaa ggtggttgaa     720
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196 accttgaaac agtacactgg ctttgctgcg ggtgctcaga attcgttagg ctatcagggt     900
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222 ctgtatctgg tgttcttcct gctgcaaacc tcaatcaagt ctaacggcgg gaaaggaaaa    1020
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224 ctcaacttgt gggacacggt gcctgtgcgt cgtcttcgtg cccggtttac gcgtaaagga    1140
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RAW SEQUENCE LISTING                    DATE: 11/28/2000
PATENT APPLICATION:  US/09/252,691C     TIME: 12:05:30

Input Set : D:\Pat9903.pto
Output Set: N:\CRF3\11282000\I252691C.raw

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    240 ctgcactttg ttcaggactg gggtcagcac gctttttta atacgttatg gaataccggg    240
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    247 cacagttttg caatgcacct tttatatggc cacgttcacc ctaaggtact ccagggtctg   660
W--> 248 ctggggcatg aaaagtttga gagtactgag gtctatacga aaatatttgc gctcgacgtg   720
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    265 ttcaaaacta aaacctcgta tcgagctccg ctgaacaaag actacatacc aaatccccga   300
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    271 cttcacatgc ccattgaacg taagccctgg tcactcagtg ctaatggtgg tgaggttata   660
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    286 caacagcaat ccgccgcact tggcagaacg gcaacgcaac cggcaaacca gaaagcgatc   180
    287 gccaatctgt tatacggtgg tgagtgggga aaagaacacc ttggcaatca ggtcgctggt   240
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<f.y.l.>

Please Note:
**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220> to
<223> fields of each sequence which presents at least one n or Xaa.**

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            VERIFICATION SUMMARY                    DATE: 11/28/2000
            PATENT APPLICATION:  US/09/252,691C     TIME: 12:05:31

            Input Set : D:\Pat9903.pto
            Output Set: N:\CRF3\11282000\I252691C.raw

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L:137 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:7
L:137 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7
L:198 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:9
L:198 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9
L:248 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:11
L:248 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:11
L:276 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:12
L:276 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12
L:561 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14
L:561 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14
L:562 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14
M:340 Repeated in SeqNo=14
L:577 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:15
L:577 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15
L:611 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:16
L:611 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:16
L:641 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:17
L:641 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:17
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L:1188 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:49
L:1188 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:49
L:1233 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:52
L:1233 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:52
L:1327 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:57
L:1327 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:57
L:1369 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:60
L:1369 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:60
L:1423 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:62
L:1423 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:62
L:1458 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:64
L:1458 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:64
L:1577 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:72
L:1577 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:72
L:1581 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:72
M:340 Repeated in SeqNo=72
L:1610 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:74
L:1610 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:74
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VERIFICATION SUMMARY            DATE: 11/28/2000
PATENT APPLICATION:  US/09/252,691C       TIME: 12:05:31

Input Set : D:\Pat9903.pto
Output Set: N:\CRF3\11282000\I252691C.raw
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L:1661 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:75
L:1661 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:75
L:1890 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:88
L:1890 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:88
L:2101 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:100
L:2101 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:100
L:2118 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:101
L:2118 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:101
L:2166 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:102
L:2166 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:102
L:2194 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:103
L:2194 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:103
L:2195 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:103
M:340 Repeated in SeqNo=103
L:2368 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:113
L:2368 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:113
L:2562 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:122
L:2562 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:122
L:2657 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:127
L:2657 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:127
L:2675 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:127
M:340 Repeated in SeqNo=127
L:2676 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:127
L:2827 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:134
L:2827 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:134
L:2859 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:135
L:2859 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:135
L:2860 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:135
M:340 Repeated in SeqNo=135
L:3073 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:148
L:3073 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:148
L:3096 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:149
L:3096 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:149
L:3178 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:152
L:3178 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:152
L:3295 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156
L:3295 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:156
L:3297 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156
M:340 Repeated in SeqNo=156
L:3298 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156
L:3299 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156
L:3346 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:158
L:3346 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:158
L:3526 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:160
L:3526 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:160
L:3529 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:160
M:340 Repeated in SeqNo=160
L:3530 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:160
L:3699 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:161
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VERIFICATION SUMMARY   DATE: 11/28/2000
PATENT APPLICATION: US/09/252,691C   TIME: 12:05:31

Input Set : D:\Pat9903.pto
Output Set: N:\CRF3\11282000\I252691C.raw

M:340 Repeated in SeqNo=161
L:4214 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:189
L:4231 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:190